

What is claimed is:

1. A seat cushion pumping device for a vehicle, adapted to adjust a height of a seat cushion, comprising:

a clutch unit adapted to transmit a rotating force to gears of link means in a desired direction where the seat cushion is to be moved; and

a brake unit for fixing the operated link means so as not to move,

wherein the clutch unit and the brake unit are accommodated between a lower bracket and an upper bracket, which are positioned in front of a mounting bracket for accommodating the entire pumping device there between,

wherein the clutch unit is arranged between the upper bracket and one surface of a base, which is interposed between the lower bracket and the upper bracket, and the brake unit is arranged between the lower bracket and the other surface of the base,

wherein the clutch unit includes:

a roller assembly accommodated in a clutch recess defined on the one surface of the base;

a lever block inserted in the roller assembly to rotate it; and

a lever bracket externally coupled to the lever block to operate it,

wherein the brake unit includes:

a link connection gear secured around one end of a shaft so as to penetrate through shaft holes of the lower bracket and the mounting bracket, thereby being engaged with the gears of the link means;

an operating plate accommodated in a brake guide, which is coupled into a receiving recess of the lower bracket;

power transmission grooves defined on an outer circumferential surface of the operating plate and adapted to receive power from power transmission pins formed on the other surface of the base;

flattened portions formed on the outer circumferential surface of the operating plate;

plural pairs of brake pins accommodated between the flattened portions and the brake guide, and adapted to transmit only in an operating direction power of the base and prevent transmission thereof in a reverse direction; and

elastic members, each being interposed between two brake pins, and adapted to continuously push the brake pins in a circumferential direction of the flattened portions, thereby fixedly maintaining the brake pins between an inner circumferential surface of the brake guide and the flattened portions, and

wherein pin pushers integrally protrude from both sides of the respective power transmission pins, which are integrally formed on the other surface of the base, the pin pushers being positioned adjacent to the brake pins.

2. The device as set forth in claim 1, wherein the lever bracket has a spring hook protruding toward the base, the spring hook, along with a spring hook of the lower bracket, being caught by a pair of protruding pieces of a return spring, which is interposed between the mounting bracket and the lower bracket, thereby ensuring that a lever is continuously maintained in position.

3. The device as set forth in claim 1, wherein the lever bracket further has fastening grooves arranged in a radial direction thereof, into which fastening protrusions of the lever are coupled, respectively,

wherein the lever block has a center screw bore, through which the lever is bolted,

wherein the lever block further has fastening grooves radially formed at an outer circumferential surface thereof, into which operating protrusions radially formed at the lever bracket are engaged, respectively,

whereby the lever block is operated by the lever.

4. The device as set forth in claim 1, wherein the lever block further has a plurality of operating surfaces arranged along the outer circumferential surface thereof,

wherein the operating surfaces are centrally formed with roller slits, respectively, for positioning of a plurality of rollers arranged on the roller assembly, and

wherein the operating surfaces are further formed at both sides of the respective roller slits with curvedly inclined operating surfaces, which are raised relative to the roller slits, and are adapted to cause the rollers to come into frictional contact with a drum of the base, thereby allowing the base to rotate by using an operating force of the lever.

5. The device as set forth in claim 1, wherein the roller assembly has a boss, around which a clutch spring is coupled, and

wherein the clutch spring is caught at both ends thereof by one of spring pins, which protrudes downward from an upper side of an inner diameter surface of the upper bracket, thereby allowing the roller assembly to be continuously maintained in position.

6. The device as set forth in claim 1, wherein around an outer circumferential surface of the base is provided a push nut for preventing generation of a return loss of the lever due to gaps between the power transmission pins and the power transmission grooves of the operating plate,

wherein the push nut includes:

a push nut body made as an elastic thin sheet member; and

base plate pieces formed at an inner diameter surface of the push nut body and having an "L"-shape for ensuring tight contact thereof to the outer circumferential surface of the base, and

wherein the push nut body is compressed at an outer diameter surface thereof by flanges protruding from the lower bracket.